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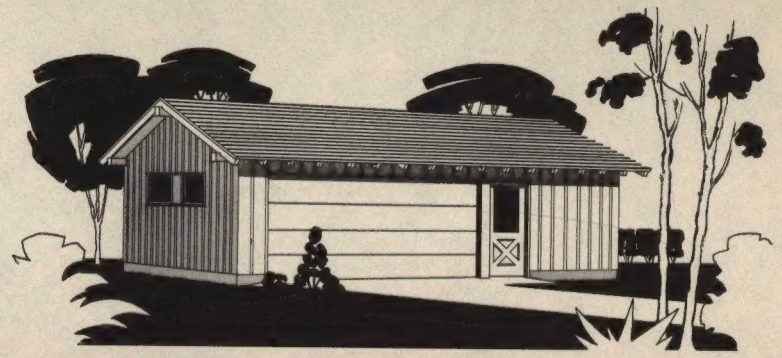
"Do • It • Yourself"

GARAGE

PLANS WITH COMPLETE BLUE PRINTS



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About Garages

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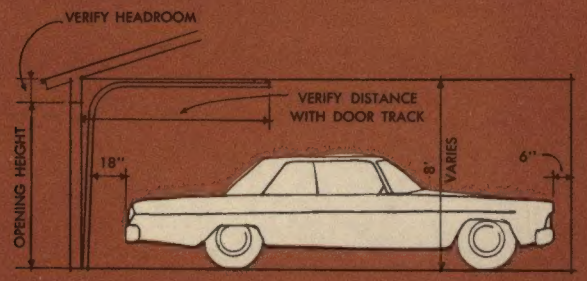

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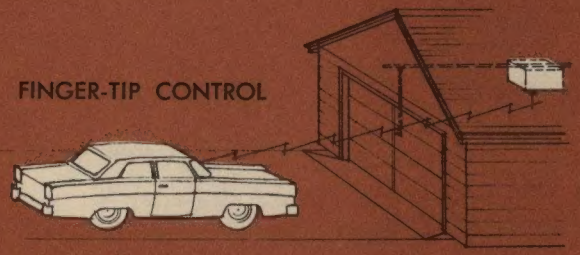

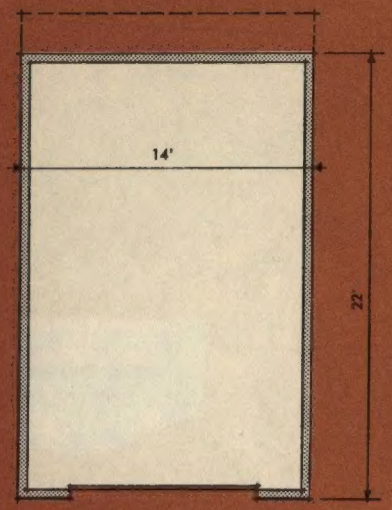

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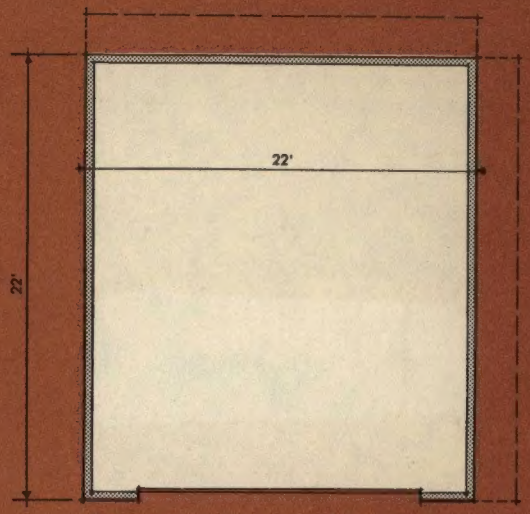

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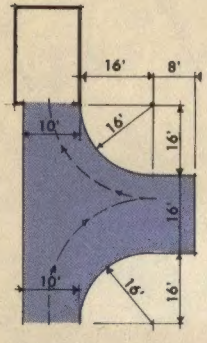

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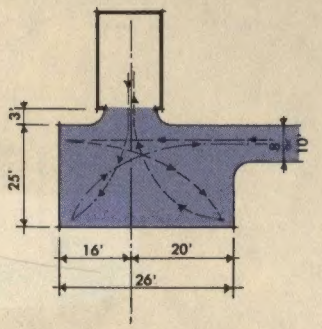

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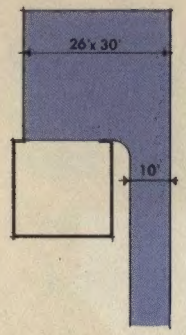

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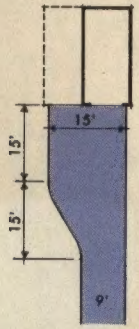

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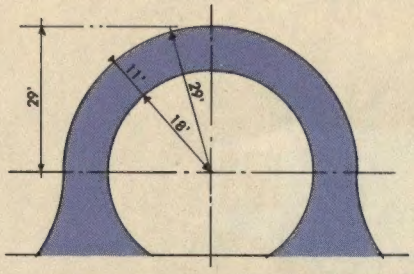

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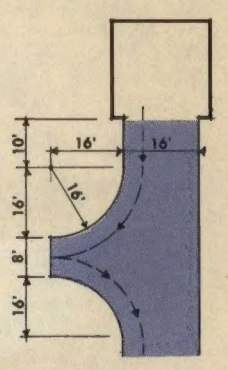

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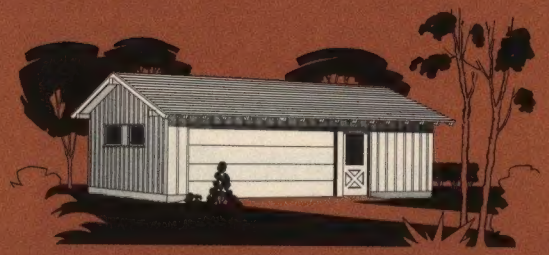

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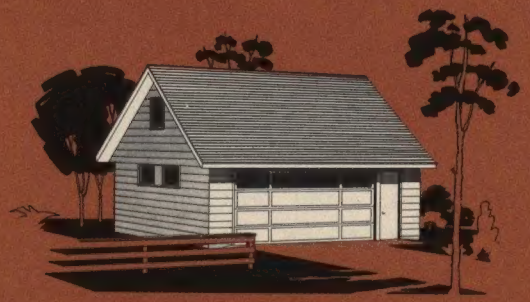

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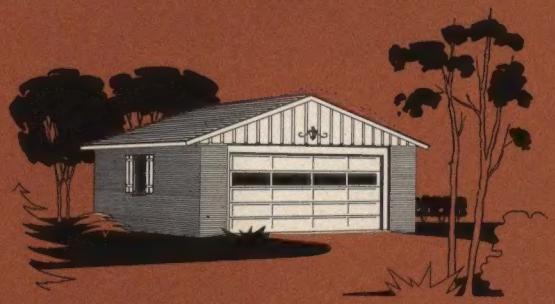

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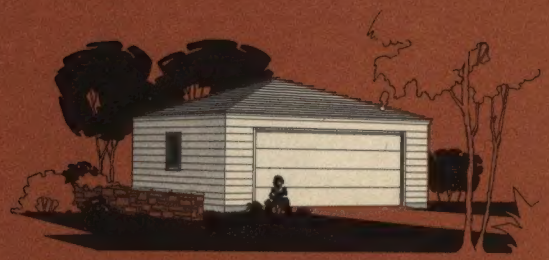

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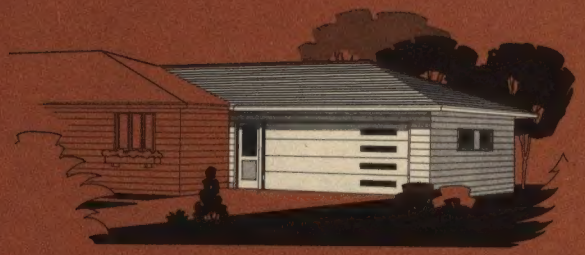

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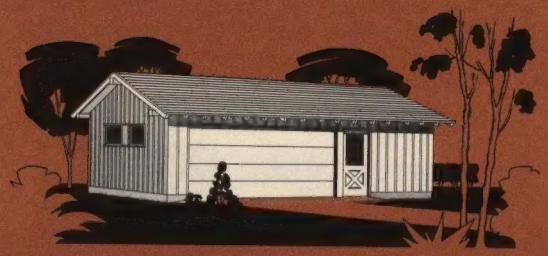

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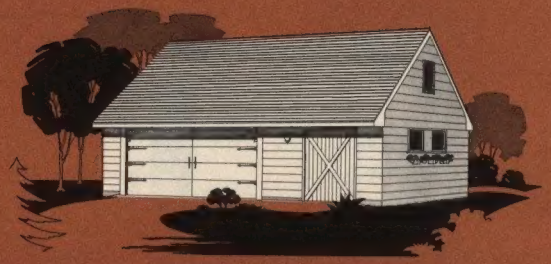

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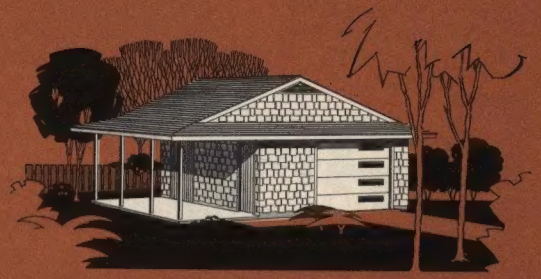

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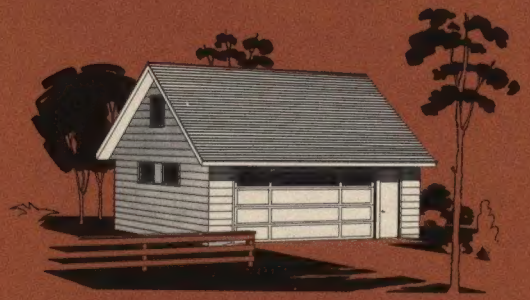

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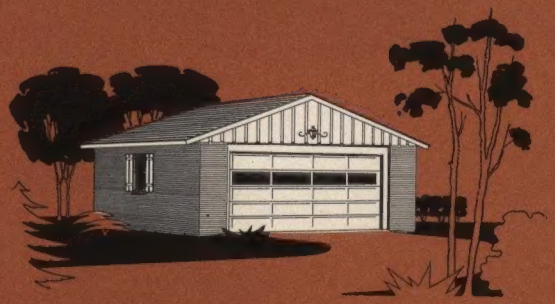

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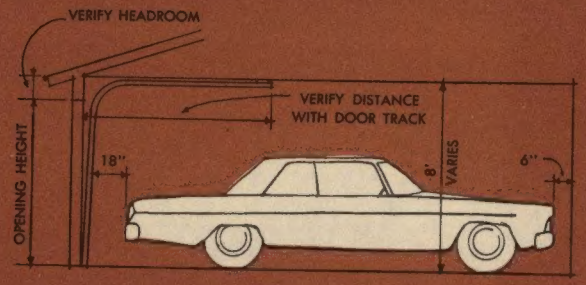

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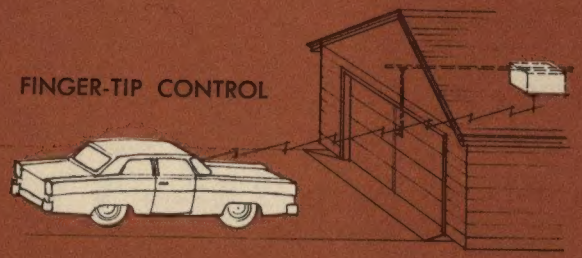

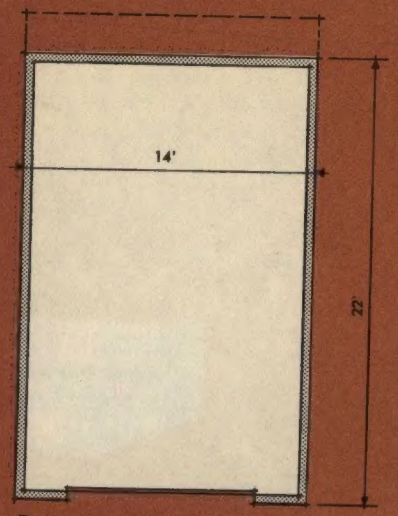

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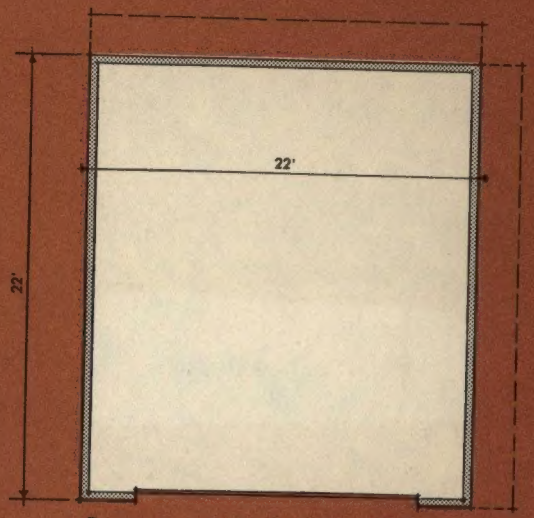

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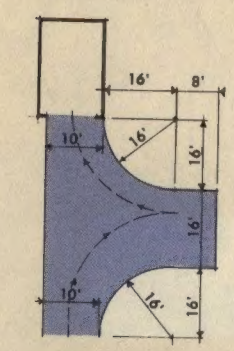

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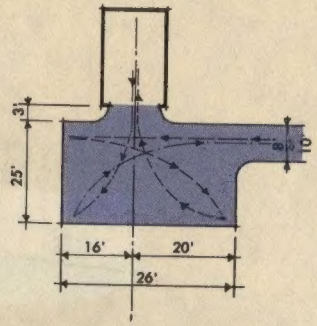

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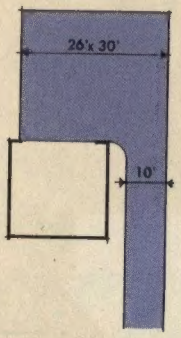

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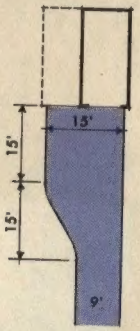

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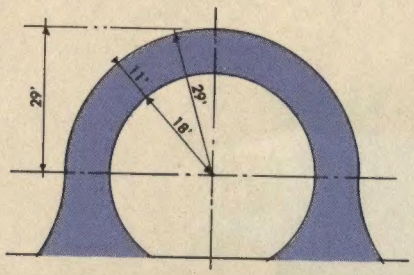

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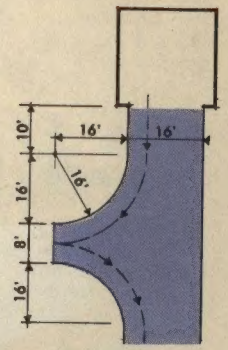

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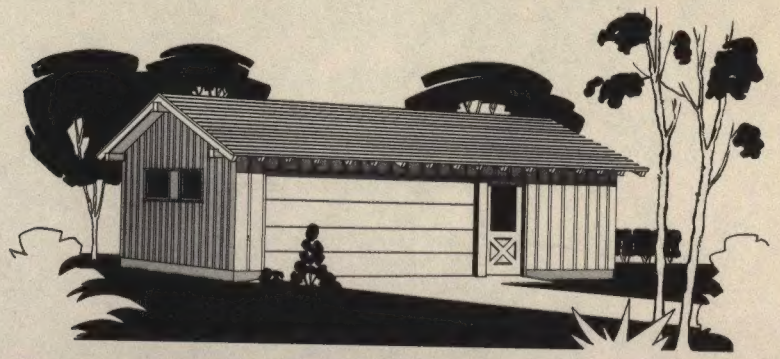

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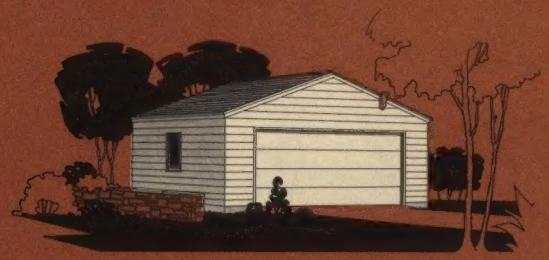

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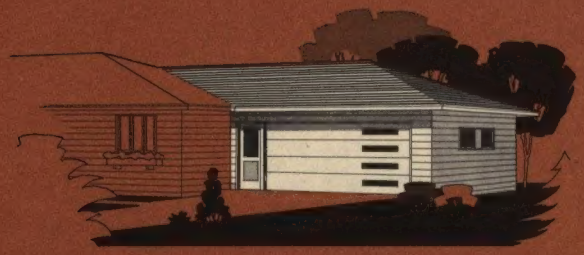

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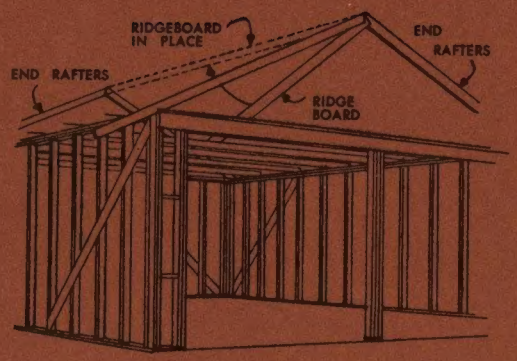

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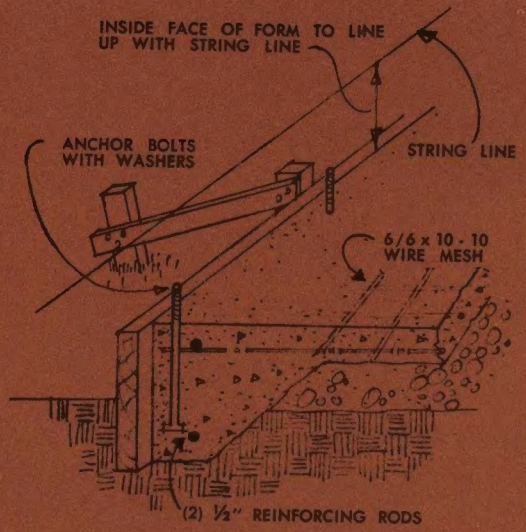

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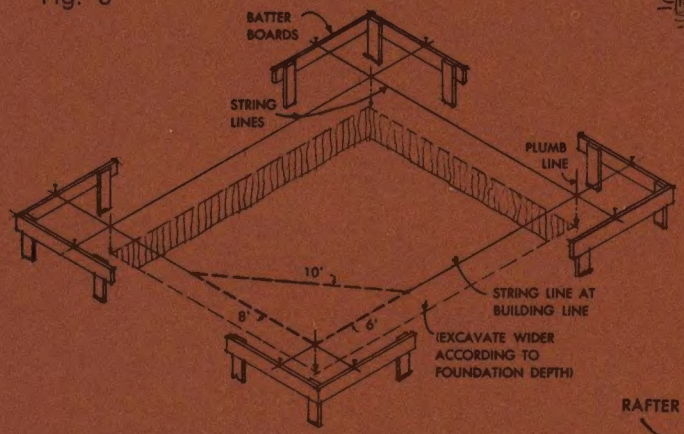


Fig. 1

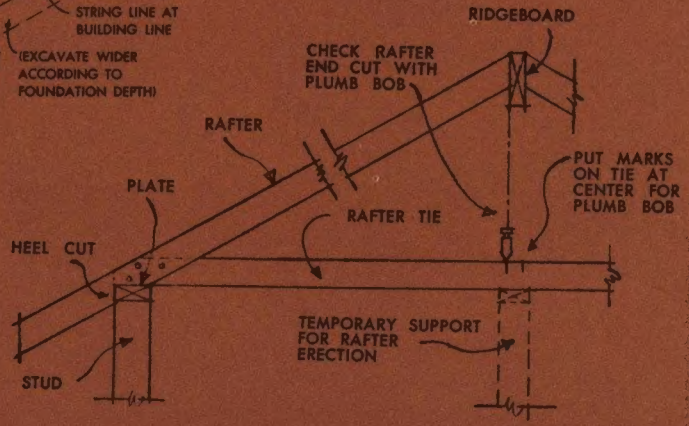


Fig. 4

1 Stake out the area as illustrated. (see Fig. 1) Be sure all corners are square. Remember that dimensions on plan are to outside of concrete and face of stud. Use 2" lumber to build forms for the concrete slab. (see Fig. 2) Inside face of form boards must line up exactly with "string lines" set according to plan dimensions. Brace thoroughly to keep forms from pushing out when concrete is poured.

2 Two ½" reinforcing bars in perimeter and wire mesh in slab are recommended. Pour concrete and level with a long straight 2 x 4 as you go. Watch concrete very close and trowel before it sets up.

3 Set anchor bolts with washers as indicated on plan 1¾" in from edge of concrete and extending at least 2½" above surface.

4 Place 2 x 4 on top of bolts with edge of 2 x 4 flush with outside face of concrete and tap with a hammer over each bolt to locate position of bolt holes. Drill bottom plate and fit over bolts to check location. Lay 2 x 4 top plate along side of bottom plate and mark both, for stud locations.

5 Layout and assemble wall on concrete slab. Nail through plates into each end of stud with two 16d nails. Square walls and temporarily nail 1 x 6 diagonally to frame. Tilt up each side and end wall as completed and brace securely. Plumb walls, square building and apply top plate. Lap top plate over adjacent walls for good tie-in. Nail sections together and notch in 1 x 4 diagonal corner bracing if plywood sheathing is not used. Frame in front wall as shown on plan.

6 Nail on rafter ties as shown on plan. They will make a working platform for rafter erection. Provide support if span is too great. Front tie should not be nailed in place until overhead door hardware is ready to be installed.

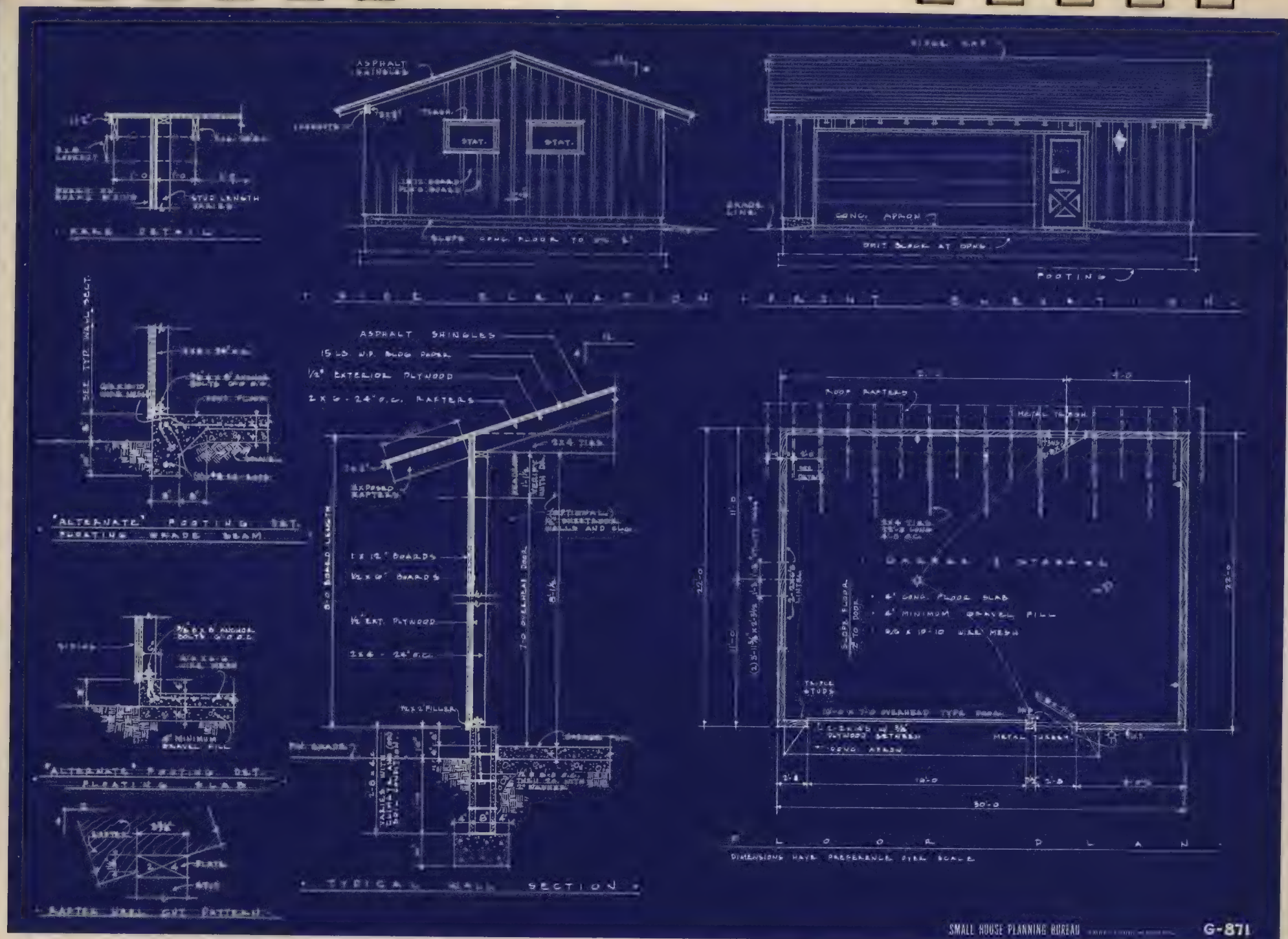
7 Use pattern on plan to layout heel cuts on rafter. Make two heel cuts, set rafters on plate and check rafter end cut with plumb bob. Remember to allow for ridge board. (see fig. 4) Use one of these as the pattern to cut all the others. Mark spacing of rafters on ridge board. Set the two end rafters in place, nail to plate and to one end of ridge board at peak of rafters. Brace for plumb. Then lift ridge board into level position and nail two more rafters every 10 to 12 feet. Place all remaining rafters directly above corresponding studs and nail in place. Rafter ties should now be nailed to rafters before bracing is removed.

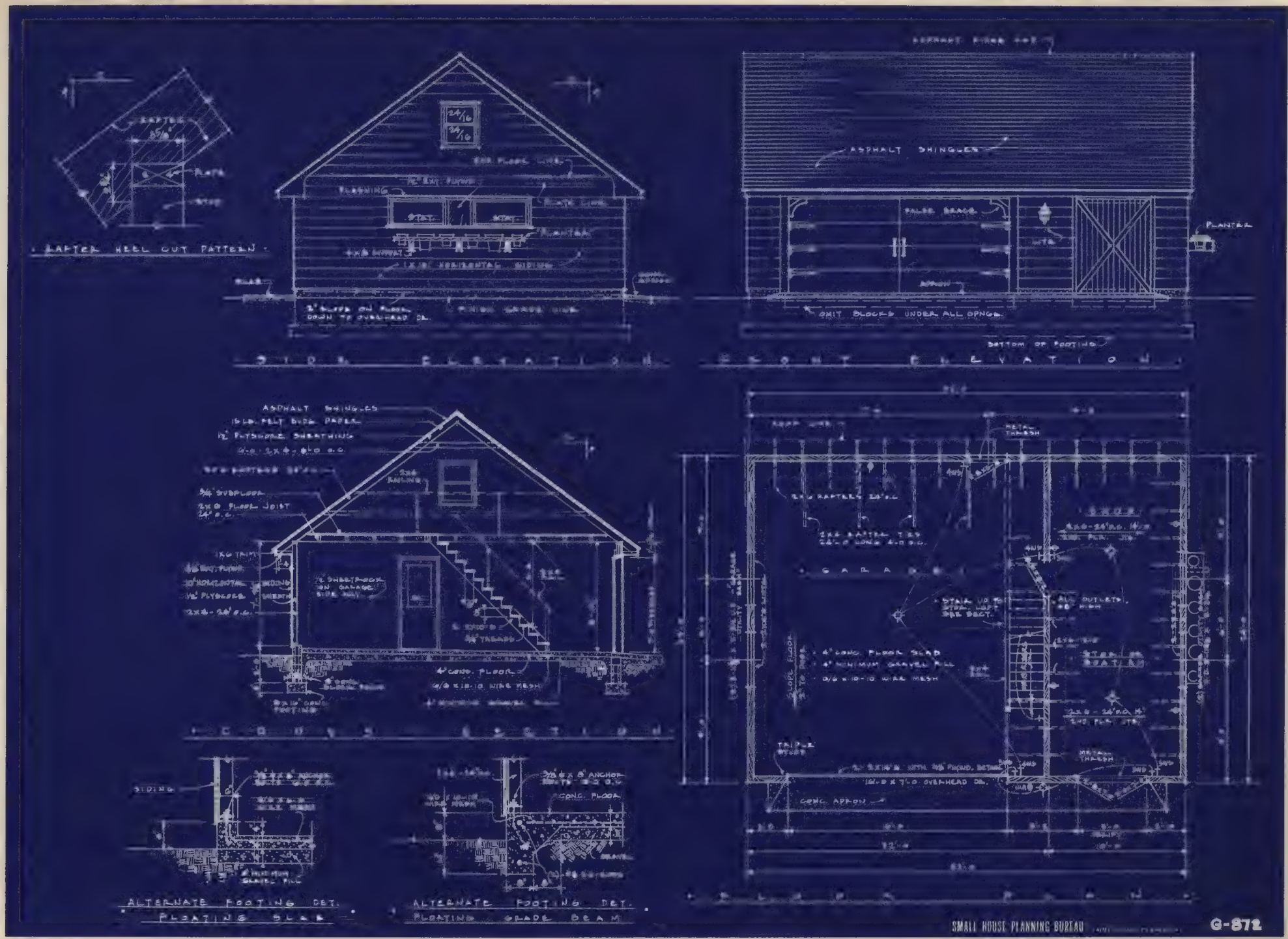
8 Add gable end studs, eave blocking and any other framing that is called for on plan.

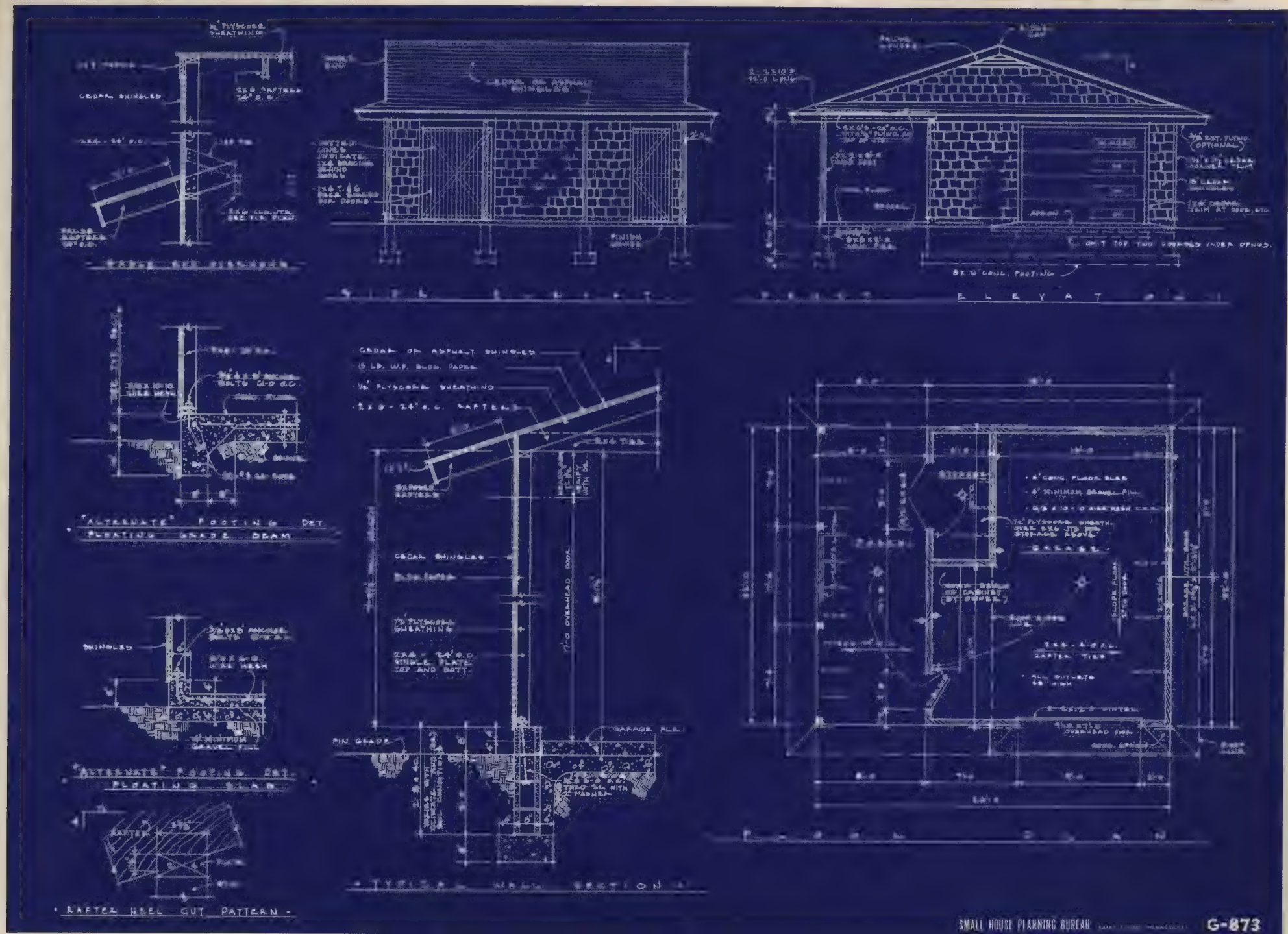
9 Apply roof sheathing, starting at bottom end of rafters. (stagger joints) Check plan to find out how far roof sheathing is to extend out at gable ends.

10 Apply roof shingles over (felt if desired) wood shingle "base starter course" which shall have ¾" extension beyond trim. Excess shingle length should be cut off on inward side.

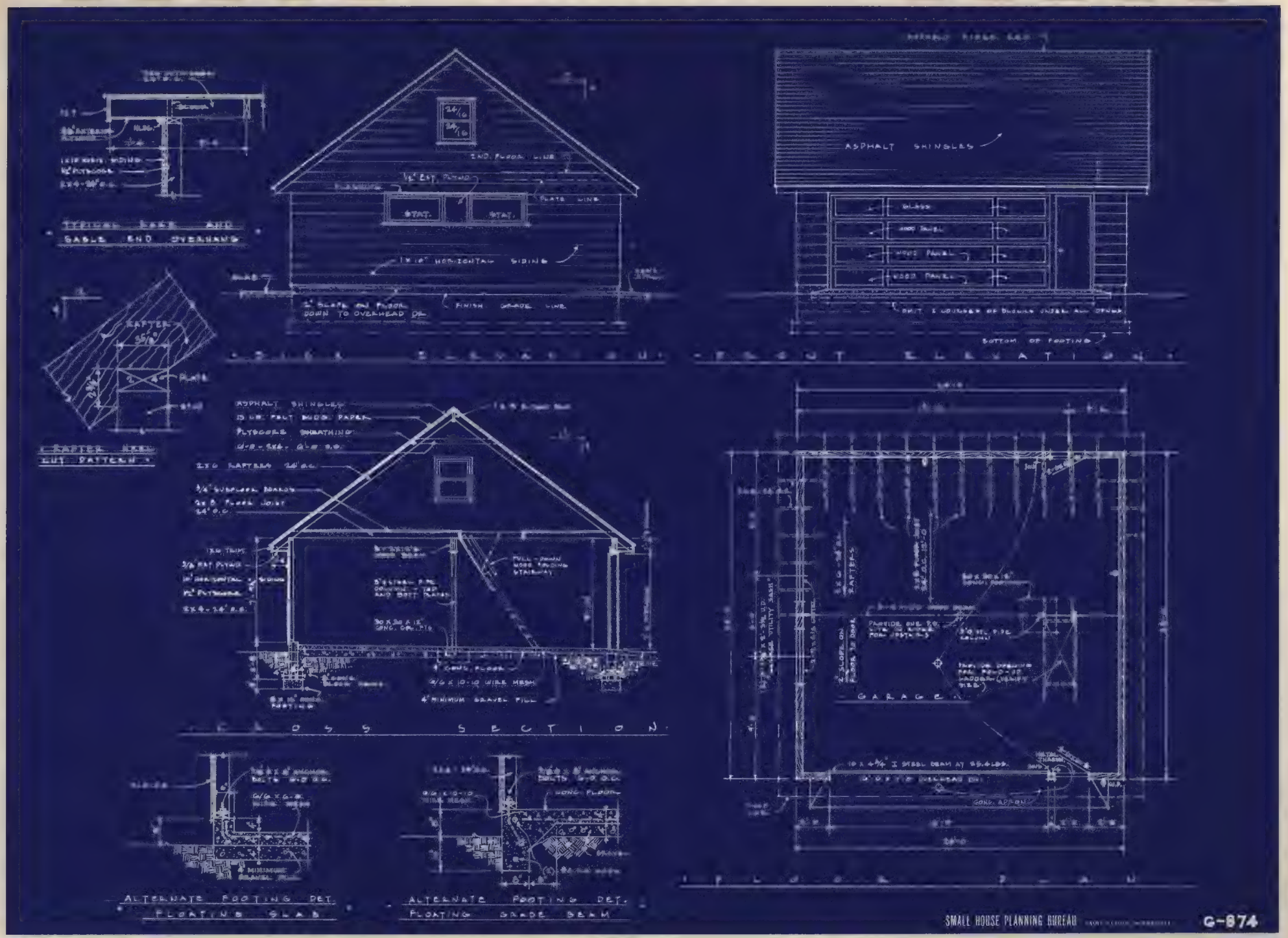
11 Apply a felt over wall sheathing if plywood is not used. Start siding at bottom and level. Check every third course and stagger joints. Trim at eaves and corners. Install doors and windows and apply trim.


ASPHALT SHINGLES
STAT.
STAT.
CONC. APRON
DRIP BLOCK AT DOOR
FOOTING
ASPHALT SHINGLES
15 LB. W.P. BLDG PAPER
1/2" EXTERIOR PLYWOOD
2 X 6 - 24" O.C. RAFTERS
EXPOSED RAFTERS
1 X 12" BOARDS
1/2 X 6" BOARDS
1/2" EXT. PLYWOOD
2 X 4 - 24" O.C.
8'-0 BOARD LENGTH
7'-0 OVERHEAD DOOR
8'-6"
2 X 8 FILLER
FIN. GRADE
MINIMUM GRAVEL FILL
"ALTERNATE" FOOTING DET.
FLOATING SLAB
"ALTERNATE" FOOTING DET.
FLOATING GRADE BEAM
RAFTER HALF CUT PATTERN
TYPICAL WALL SECTION
ROOF RAFTERS
METAL TRUSS
GARAGE INTERIOR
4" CONC. FLOOR SLAB
4" MINIMUM GRAVEL FILL
6/6 X 10-10 WIRE MESH
TRIPLE STUDS
CONC. APRON
METAL TURNS
22'-0
11'-0
7'-0
30'-0
FLOOR PLAN
DIMENSIONS HAVE PREFERENCE OVER SCALE


RAFTER HEEL CUT PATTERN
SIDE ELEVATION
FRONT ELEVATION
ASPHALT SHINGLES
PLANTER
OMIT BLOCKS UNDER ALL OPNGS.
BOTTOM OF FOOTING
ASPHALT SHINGLES
15 LB. FELT BLDG. PAPER
1/2" PLYSCORE SHEATHING
3/4" SUBFLOOR
2X8 FLOOR JOIST
24" O.C.
1X6 TRIM
1/2" SHEETROCK ON GARAGE SIDE ONLY
4" CONC. FLOOR
6/6 X 10-10 WIRE MESH
COUPLE SECTION
GARAGE
METAL THRESH
2X6 RAFTERS 24" O.C.
2X4 RAFTER TIES
24'-0" LONG 4'-0" O.C.
STAIR UP TO STOR. LOFT SEE SECT.
ALL OUTLETS 48" HIGH
4" CONC. FLOOR SLAB
4" MINIMUM GRAVEL FILL
6/6 X 10-10 WIRE MESH
SLOPE FLOOR
TRIPLE STUDS
16'-0 X 7'-0 OVERHEAD DR.
CONC. APRON
SIDING
ALTERNATE FOOTING DET.
FLOATING SLAB
3/8" ⌀ X 8" ANCHOR
CONC. FLOOR
ALTERNATE FOOTING DET.
FLOATING GRADE BEAM
SMALL HOUSE PLANNING BUREAU
G-872

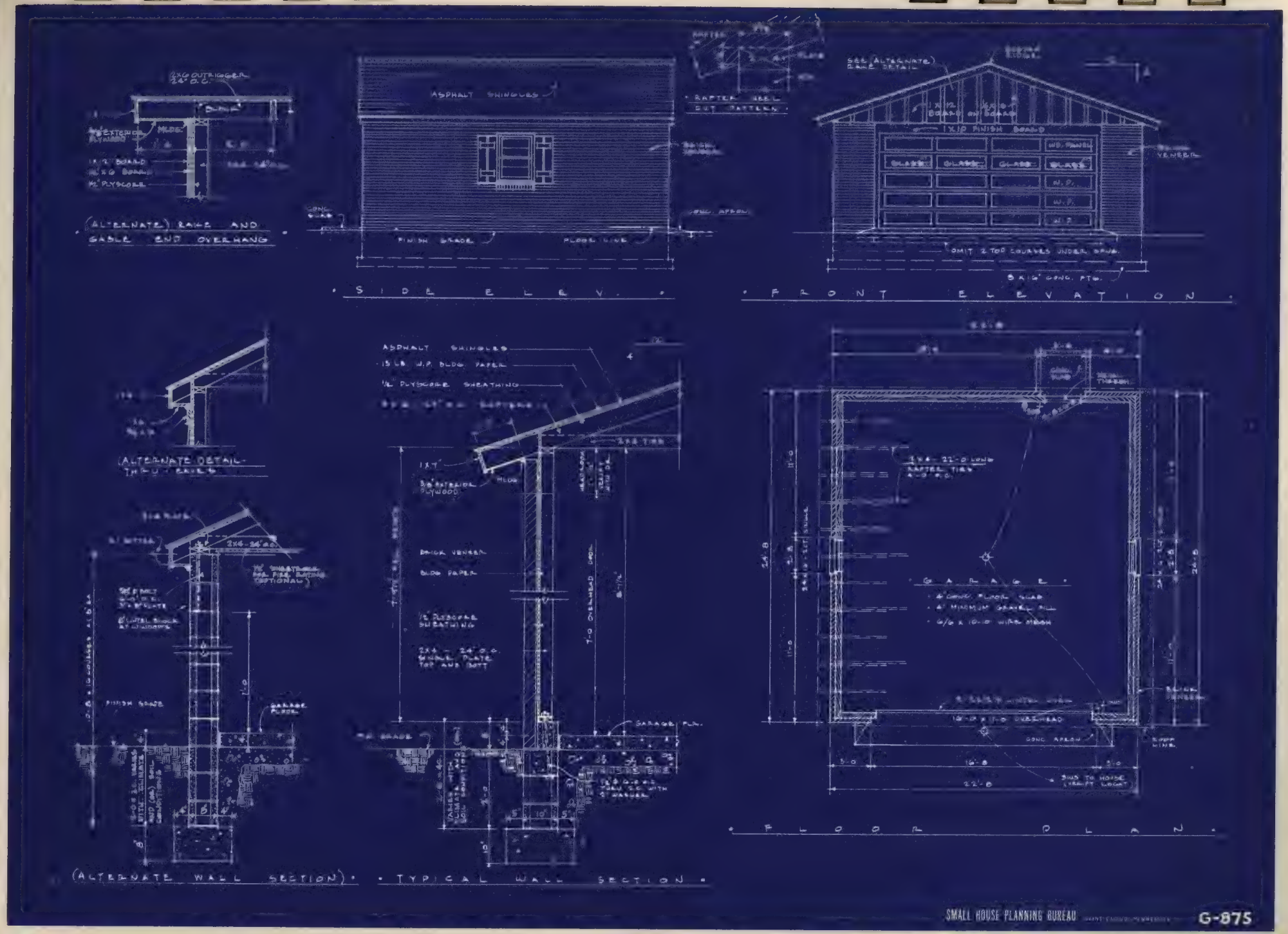


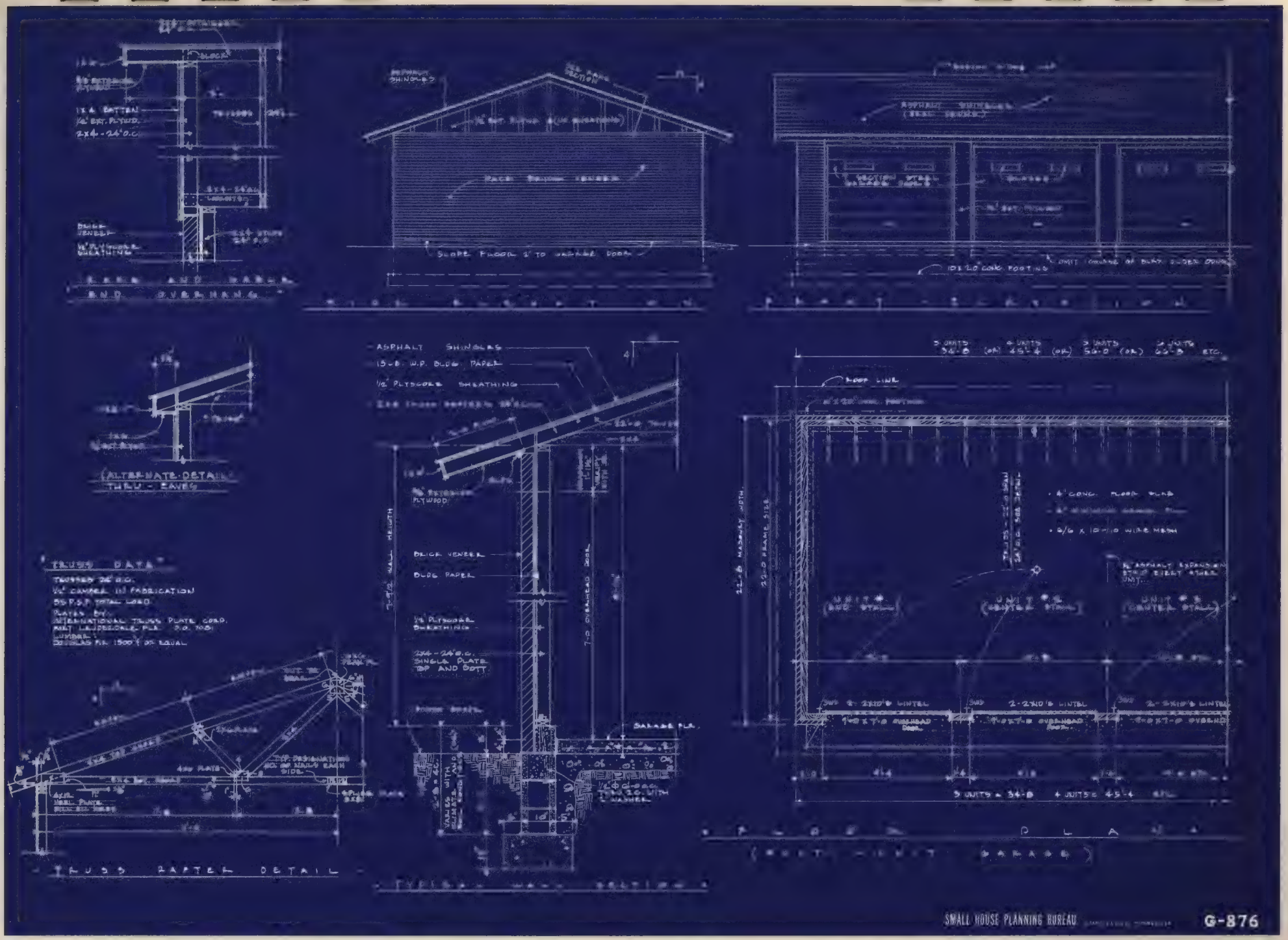
SMALL HOUSE PLANNING BUREAU G-873



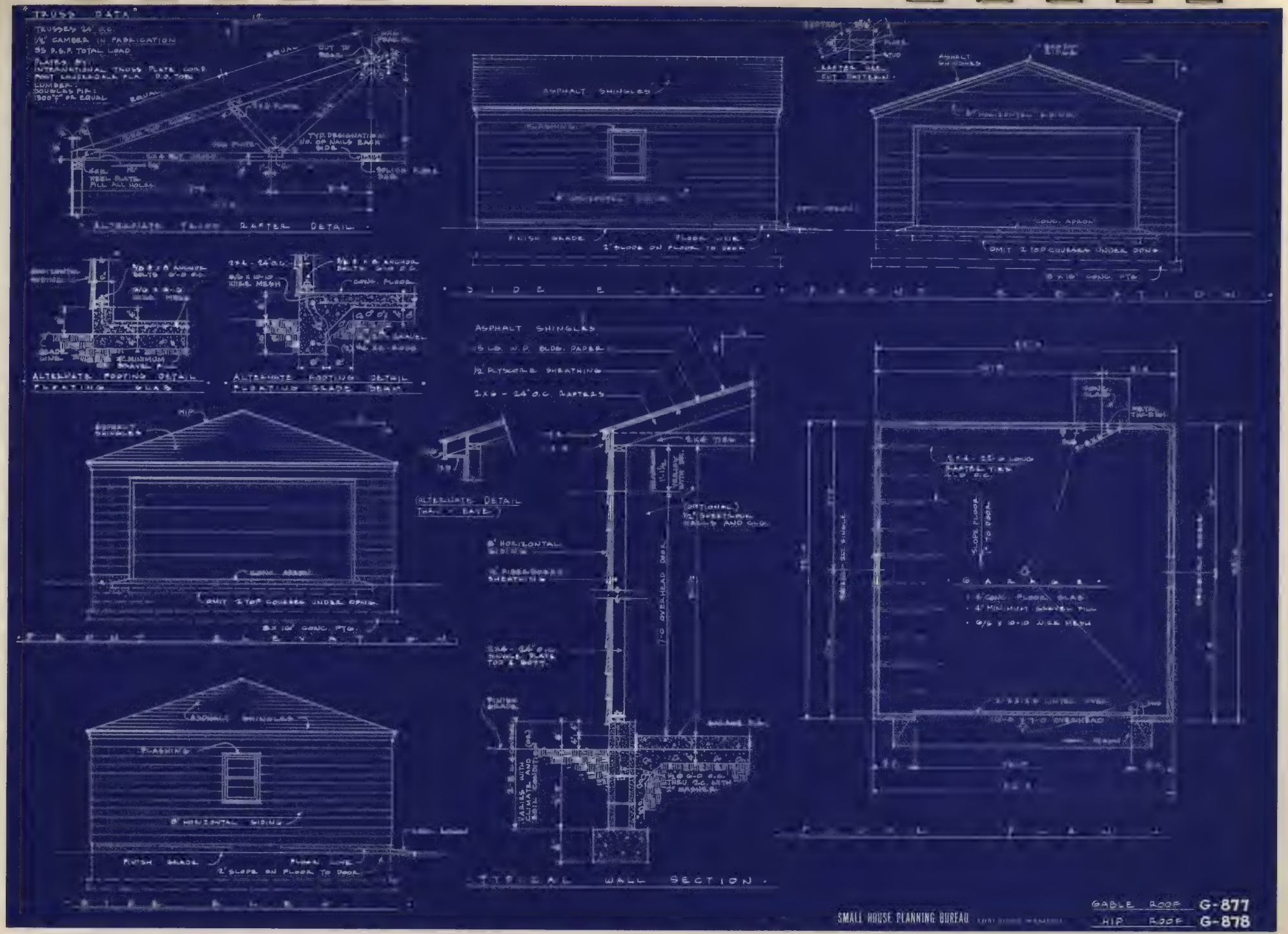
SMALL HOUSE PLANNING BUREAU

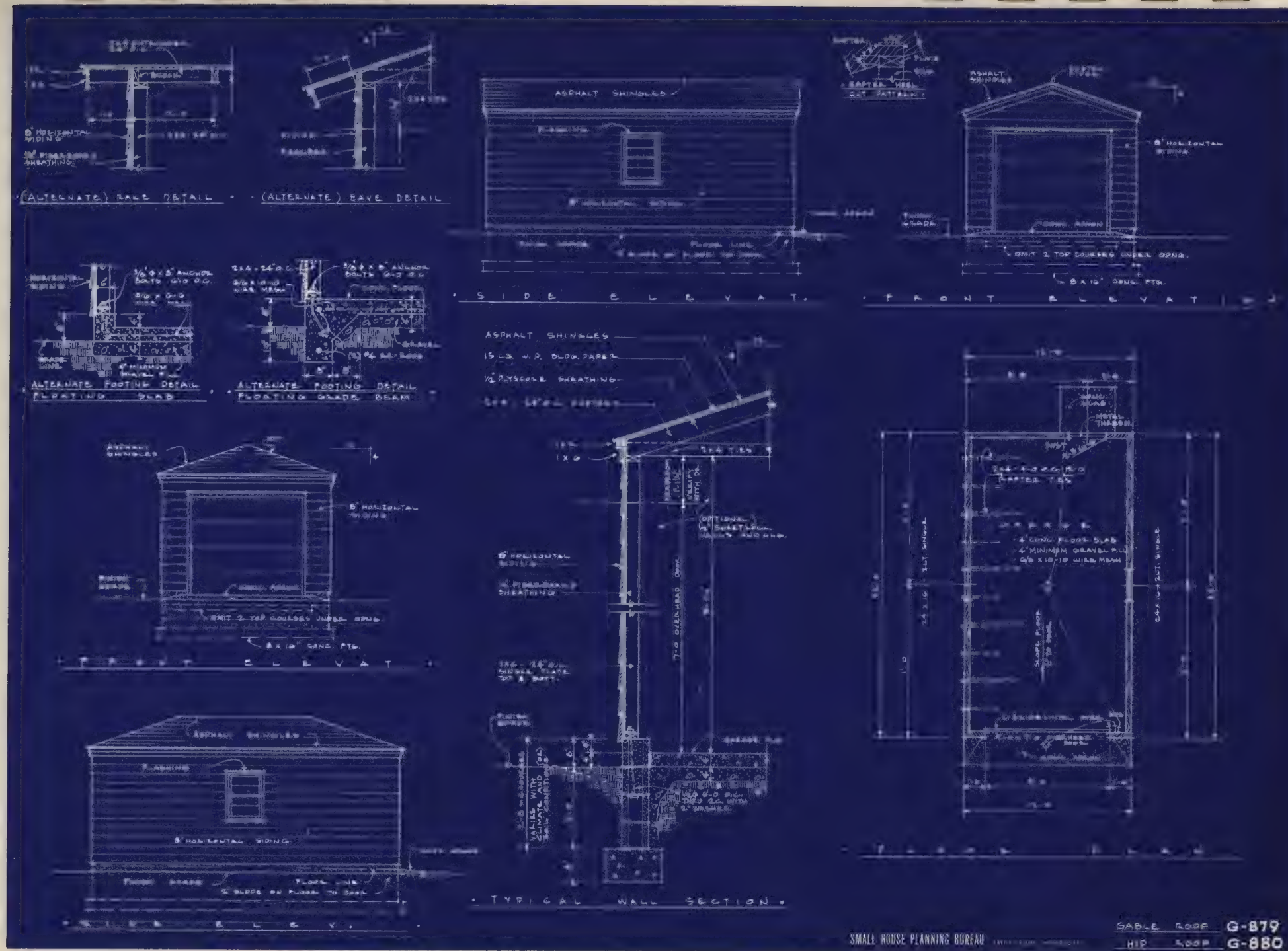
G-874


(ALTERNATE) EAVE AND GABLE END OVERHANG
ASPHALT SHINGLES
FINISH GRADE
FLOOR LINE
SIDE ELEV.
RAFTER BELL CUT PATTERN
FRONT ELEVATION
OMIT 2 TOP LOUVRES UNDER GABLE
(ALTERNATE DETAIL)
ASPHALT SHINGLES
15 LB. W.P. BLDG. PAPER
1/2" PLYWOOD SHEATHING
BRICK VENEER
BLDG. PAPER
1/2" PLYWOOD SHEATHING
2x4 - 24" O.C. SHOULD PLATE TOP AND BOTT
7'-0" OVERHEAD DOOR
GARAGE FLOOR
FINISH GRADE
(ALTERNATE WALL SECTION)
TYPICAL WALL SECTION
2x4 - 22'-0" LONG RAFTER TIES 4'-0" O.C.
GARAGE
4" CONC. FLOOR SLAB
4" MINIMUM GRAVEL FILL
6/6 x 10-0 WIRE MESH
10'-0" x 7'-0" OVERHEAD
CONC. APRON
22'-8"
FLOOR PLAN



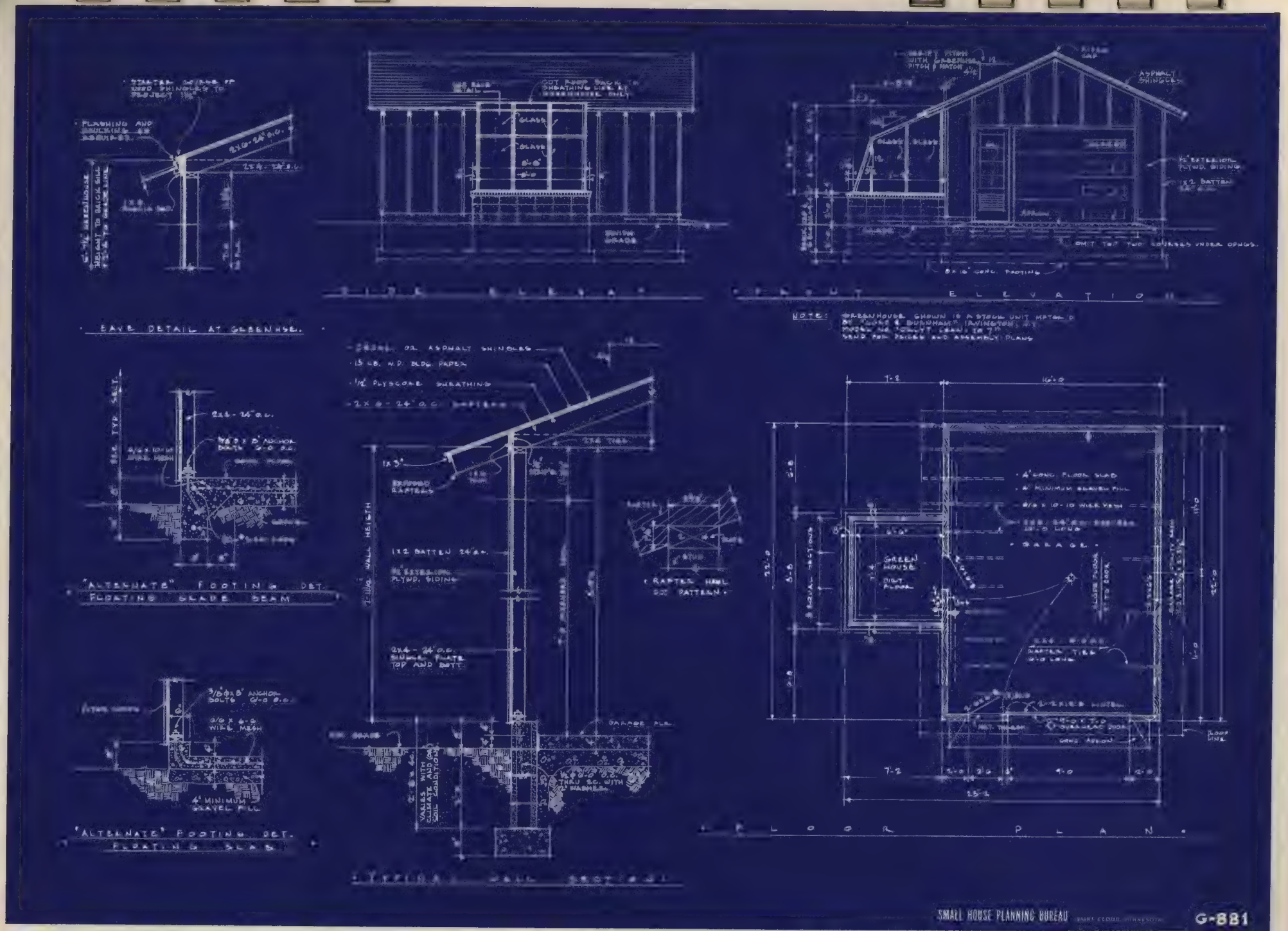
SMALL HOUSE PLANNING BUREAU G-876

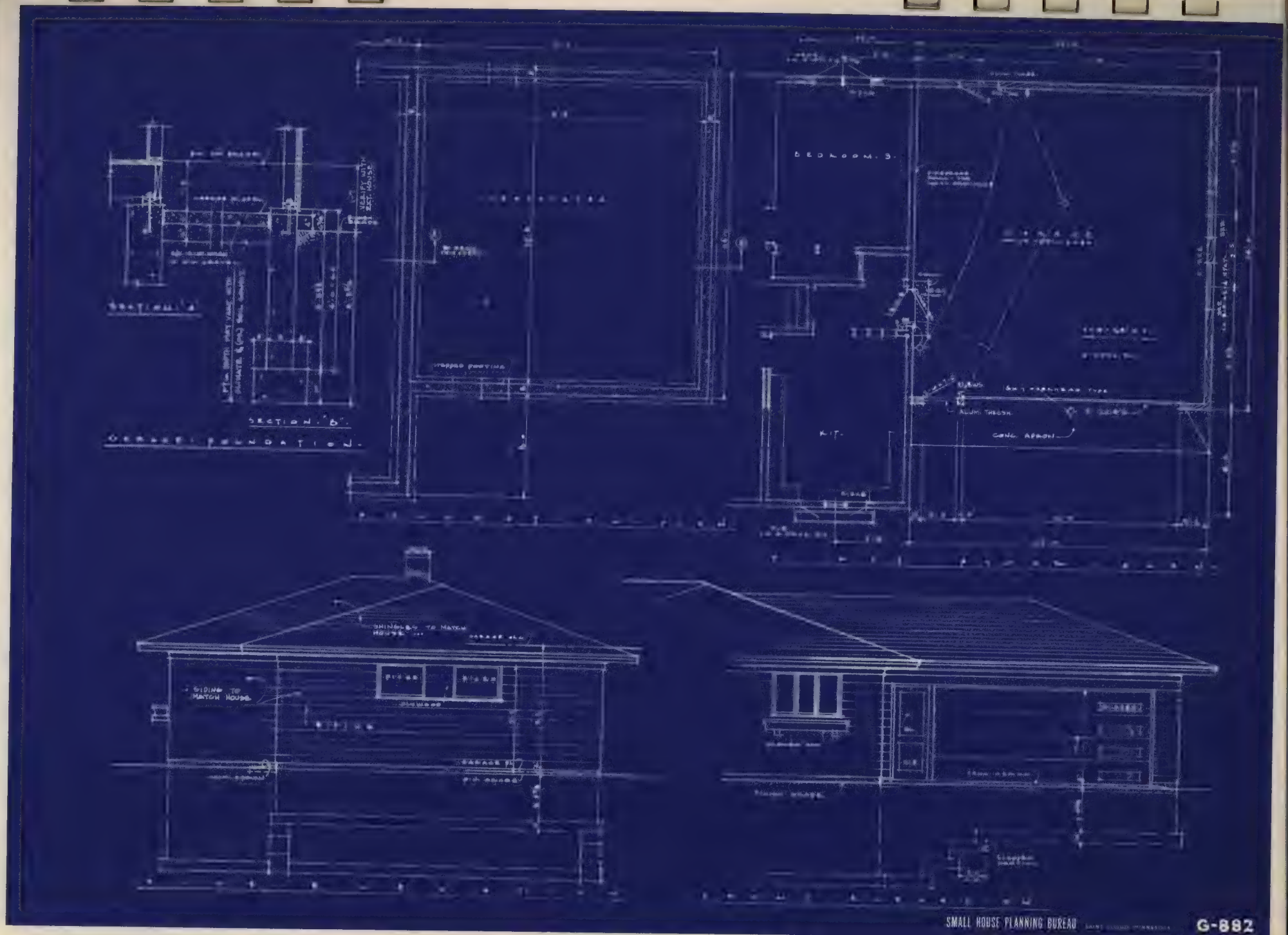

"TRUSS DATA"
TRUSSES 24" O.C.
1/2" CAMBER IN FABRICATION
35 P.S.F. TOTAL LOAD
PLATES BY:
INTERNATIONAL TRUSS PLATE CORP.
FOOT LAUDERDALE FLA. P.O. TOBI
LUMBER:
DOUGLAS FIR:
1300 "F" OR EQUAL
EQUAL
CUT TO BEAM
TYP. DESIGNATION NO. OF NAILS EACH SIDE
KEEL PLATE FILL ALL HOLES
ALTERNATE TRUSS RAFTER DETAIL
ASPHALT SHINGLES
FINISH GRADE
FLOOR LINE
2" SLOPE ON FLOOR TO DOOR
SIDE ELEVATION
RAFTER HEEL CUT PATTERN
ASPHALT SHINGLES
CONC. APRON
OMIT 2 TOP COURSES UNDER OPNG.
8 x 16" CONC. PTG.
FRONT ELEVATION
3/8 x 8 ANCHOR BOLTS 6'-0 O.C.
6/6 x 10-10 WIRE MESH
CONC. FLOOR
ALTERNATE FOOTING DETAIL FLOATING SLAB
ALTERNATE FOOTING DETAIL FLOATING GRADE BEAM
ASPHALT SHINGLES
15 LB. W.P. BLDG. PAPER
1/2" PLYSCORE SHEATHING
2x6 - 24" O.C. RAFTERS
(ALTERNATE DETAIL THRU - EAVE)
(OPTIONAL) 1/2" SHEETROCK WALLS AND CLG.
8" HORIZONTAL SIDING
1/2" FIBERBOARD SHEATHING
7'-0 OVERHEAD DOOR
2x4 - 24" O.C. SINGLE PLATE TOP & BOTT.
FINISH GRADE
VARIES WITH CLIMATE AND SOIL CONDITION
1/2 @ 6'-0 O.C. THRU 2C WITH 2" WASHER
TYPICAL WALL SECTION
HIP
ASPHALT SHINGLES
OMIT 2 TOP COURSES UNDER OPNG.
8 x 16" CONC. PTG.
FRONT ELEVATION
ASPHALT SHINGLES
FLASHING
8" HORIZONTAL SIDING
FINISH GRADE
FLOOR LINE
2" SLOPE ON FLOOR TO DOOR
SIDE ELEVATION
2x4 - 22'-0 LONG RAFTER TIES 4'-0 O.C.
SLOPE FLOOR 1" TO DOOR
GARAGE
4" CONC. FLOOR SLAB
4" MINIMUM GRAVEL FILL
6/6 x 10-10 WIRE MESH
FLOOR PLAN
SMALL HOUSE PLANNING BUREAU
GABLE ROOF G-877
HIP ROOF G-878

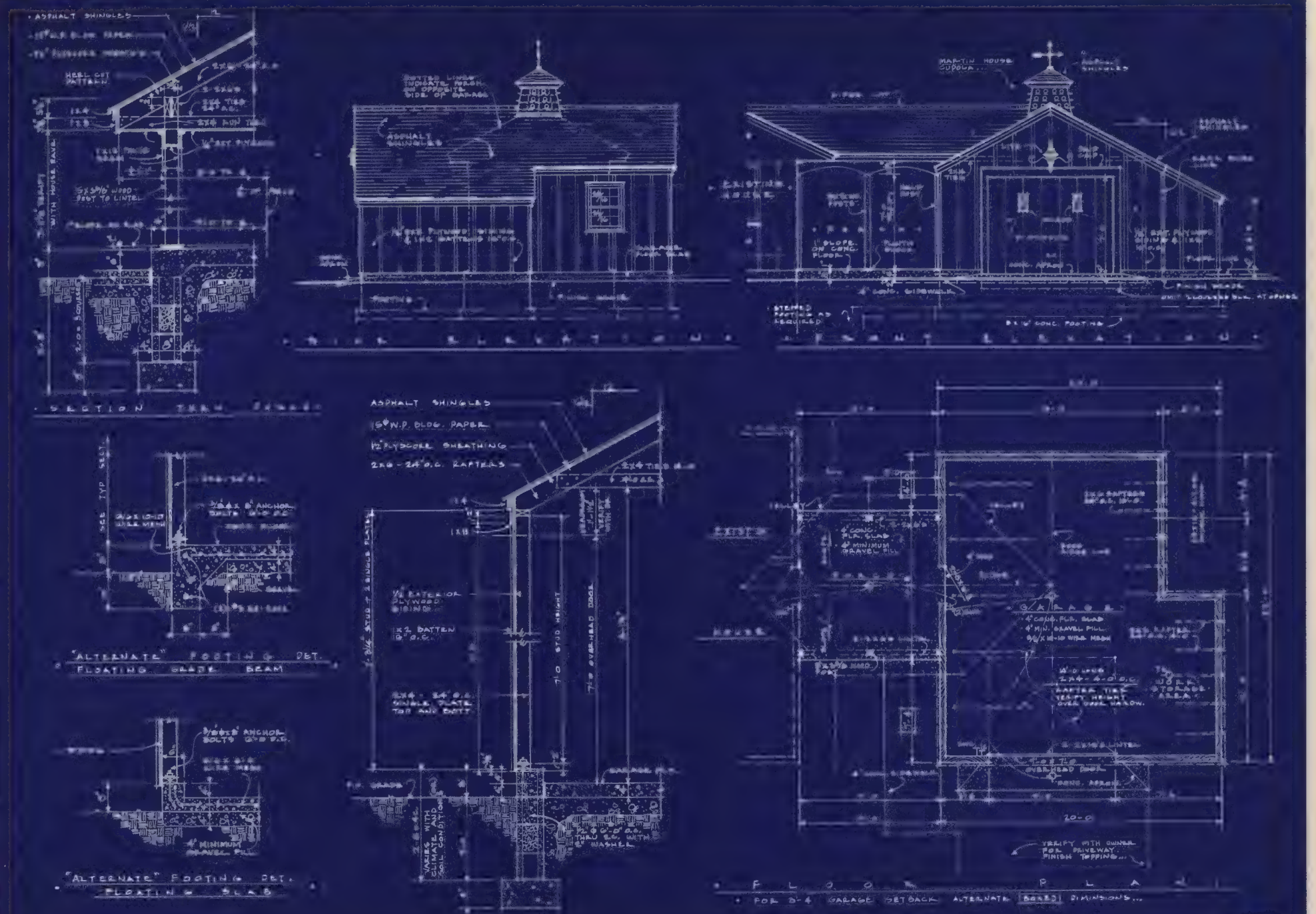


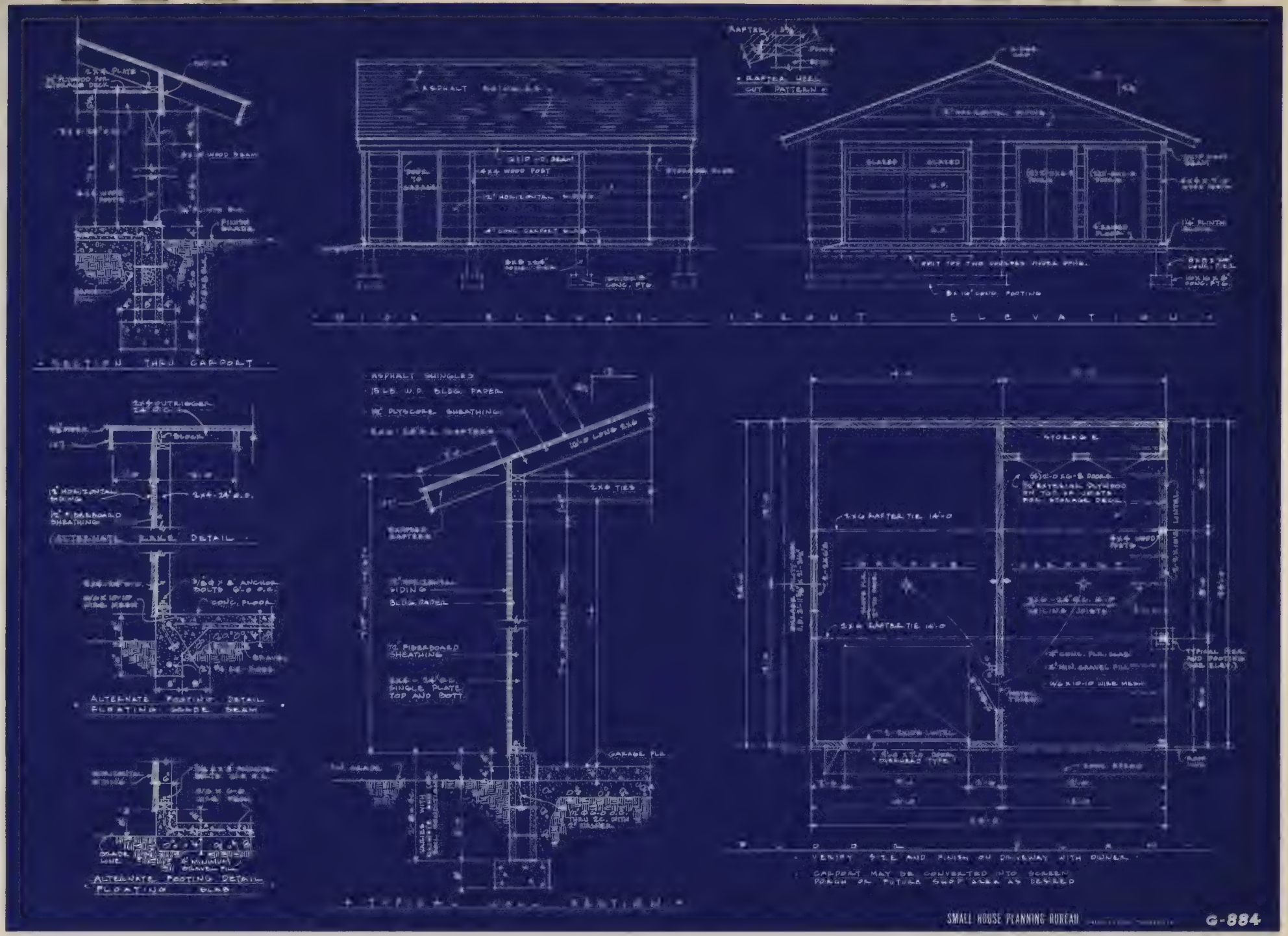
SMALL HOUSE PLANNING BUREAU

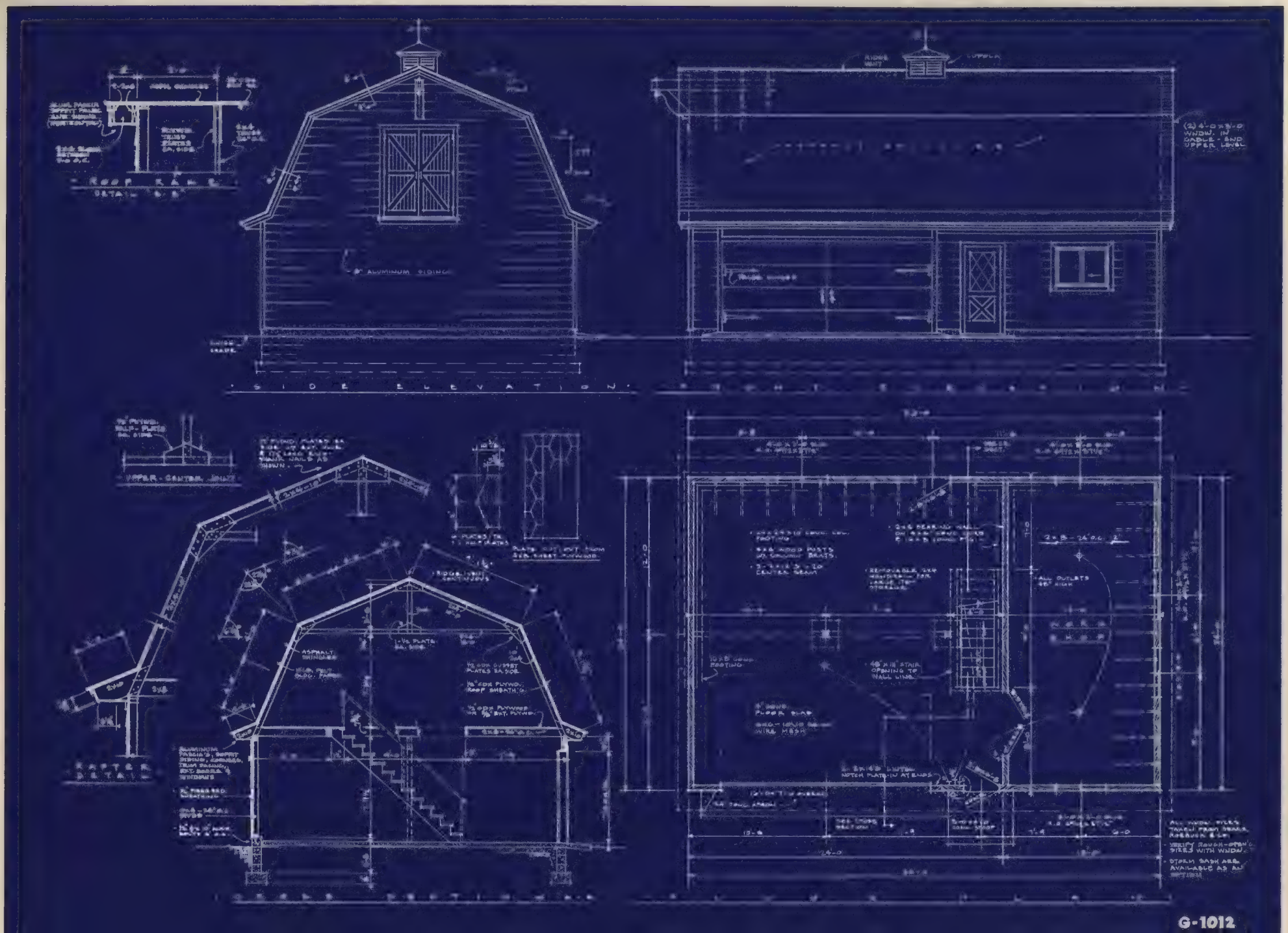
GABLE ROOF G-879
HIP ROOF G-880

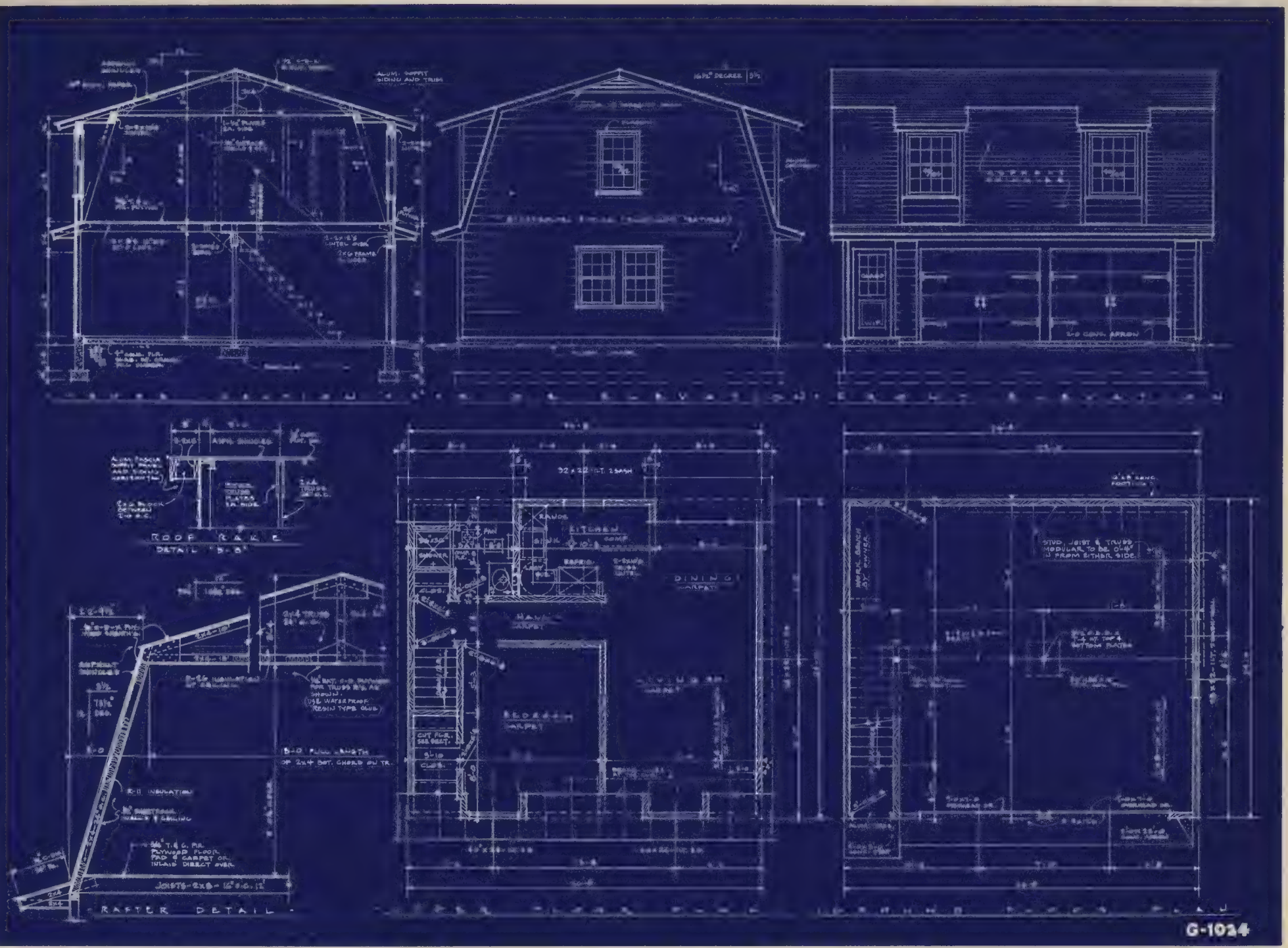

EAVE DETAIL AT GREENHSE.
SIDE ELEVATION
FRONT ELEVATION
NOTE:
"ALTERNATE" FOOTING DET.
FLOATING GRADE BEAM
"ALTERNATE" FOOTING DET.
FLOATING SLAB
TYPICAL WALL SECTION
RAFTER HEEL CUT PATTERN
FLOOR PLAN
GREEN HOUSE
GARAGE
ASPHALT SHINGLES
SMALL HOUSE PLANNING BUREAU
G-881

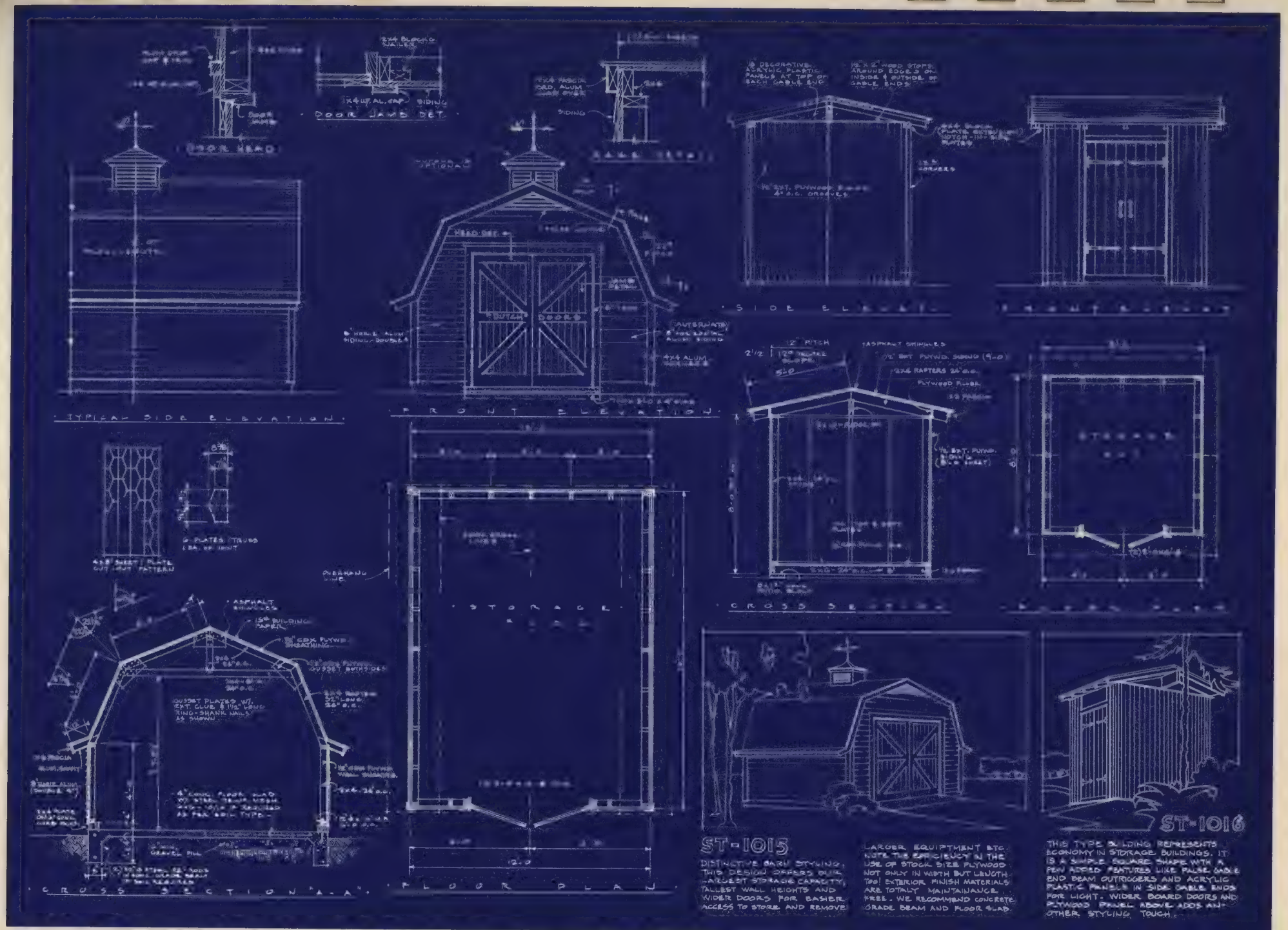

SECTION "A"
SECTION "B"
GARAGE FOUNDATION
BEDROOM 3
KIT.
SHINGLES TO MATCH HOUSE
SIDING TO MATCH HOUSE
SMALL HOUSE PLANNING BUREAU
G-882


ASPHALT SHINGLES
HEEL CUT PATTERN
SECTION THRU
SIDE ELEVATION
MARTIN HOUSE CUPOLA
FRONT ELEVATION
"ALTERNATE" FOOTING DET.
FLOATING GRADE BEAM
"ALTERNATE" FOOTING DET.
FLOATING SLAB
ASPHALT SHINGLES
15# W.P. BLDG. PAPER
1/2" PLYSCORE SHEATHING
2x6 - 24" O.C. RAFTERS
1/2" EXTERIOR PLYWOOD SIDING
1x2 BATTEN 16" O.C.
2x4 - 24" O.C. SINGLE PLATE TOP AND BOTT
7'-0 STUD HEIGHT
7'-0 OVERHEAD DOOR
VARIES WITH CLIMATE AND SOIL CONDITION
GARAGE
4" CONC. FLR. SLAB
4" MIN. GRAVEL FILL
WORK STORAGE AREA
20'-0
VERIFY WITH OWNER FOR DRIVEWAY FINISH TOPPING...
FLOOR PLAN
FOR 3-4 GARAGE SETBACK ALTERNATE BOXED DIMENSIONS...
SMALL HOUSE PLANNING BUREAU
G-883


SECTION THRU CARPORT
ALTERNATE RAKE DETAIL
ALTERNATE FOOTING DETAIL
FLOATING GRADE BEAM
ALTERNATE FOOTING DETAIL
FLOATING SLAB
ASPHALT SHINGLES
4x4 WOOD POST
12" HORIZONTAL SIDING
RAFTER HEEL CUT PATTERN
ASPHALT SHINGLES
15 LB. W.P. BLDG. PAPER
1/2" PLYSCORE SHEATHING
2x6 TIES
SIDING
BLDG. PAPER
1/2" FIBERBOARD SHEATHING
SINGLE PLATE TOP AND BOTT.
GARAGE FLR.
STORAGE
2x6 RAFTER TIE 14'-0
2x6 RAFTER TIE 14'-0
VERIFY SIZE AND FINISH ON DRIVEWAY WITH OWNER
CARPORT MAY BE CONVERTED INTO SCREEN PORCH OR FUTURE SHOP AREA AS DESIRED
SMALL HOUSE PLANNING BUREAU
G-884


ROOF RAKE
DETAIL
ALUMINUM SIDING
SIDE ELEVATION
CUPOLA
(2) 4'-0 x 3'-0 WNDW. IN GABLE - END UPPER LEVEL
UPPER CENTER JOINT
RAFTER DETAIL
ASPHALT SHINGLES
ALL OUTLETS 48" HIGH
STORM SASH ARE AVAILABLE AS AN OPTION
G-1012

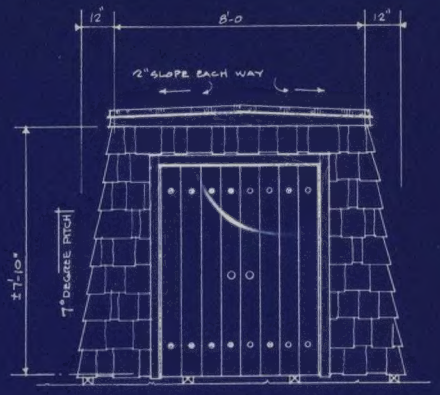

ALUM. SOFFIT SIDING AND TRIM
ROOF RAKE
DETAIL "B-B"
RAFTER DETAIL
KITCHEN
DINING
BEDROOM
G-1024


DOOR JAMB DET.
DOOR HEAD
SIDING
TYPICAL SIDE ELEVATION
FRONT ELEVATION
DUTCH DOORS
SIDE ELEVATION
FRONT ELEVATION
ASPHALT SHINGLES
CROSS SECTION
STORAGE
FLOOR PLAN
CROSS SECTION "A-A"
ST-1015
DISTINCTIVE BARN STYLING, THIS DESIGN OFFERS OUR LARGEST STORAGE CAPACITY, TALLEST WALL HEIGHTS AND WIDER DOORS FOR EASIER ACCESS TO STORE AND REMOVE LARGER EQUIPTMENT ETC. NOTE THE EFFICIENCY IN THE USE OF STOCK SIZE PLYWOOD NOT ONLY IN WIDTH BUT LENGTH TOO! EXTERIOR FINISH MATERIALS ARE TOTALLY MAINTAINANCE FREE. WE RECOMMEND CONCRETE GRADE BEAM AND FLOOR SLAB.
ST-1016
THIS TYPE BUILDING REPRESENTS ECONOMY IN STORAGE BUILDINGS. IT IS A SIMPLE SQUARE SHAPE WITH A FEW ADDED FEATURES LIKE FALSE GABLE END BEAM OUTRIGGERS AND ACRYLIC PLASTIC PANELS IN SIDE GABLE ENDS FOR LIGHT. WIDER BOARD DOORS AND PLYWOOD PANEL ABOVE ADDS ANOTHER STYLING TOUCH.

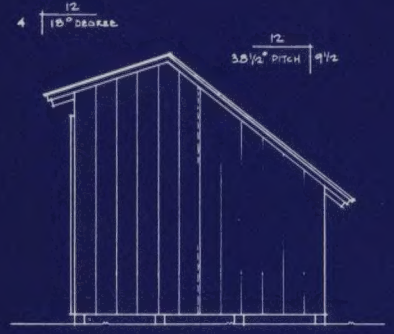
ST-1017

LENGTHENING AND INCREASING SLOPE ON BACK SIDE ADDS A DISTINCTIVE TOUCH TO THE EXTERIOR APPEARANCES. EXTERIOR DESIGN ALSO ELIMINATES THAT SQUARE BOX LOOK ALLOWING IT TO LOOK GOOD IN ANY NEIGHBORHOOD.

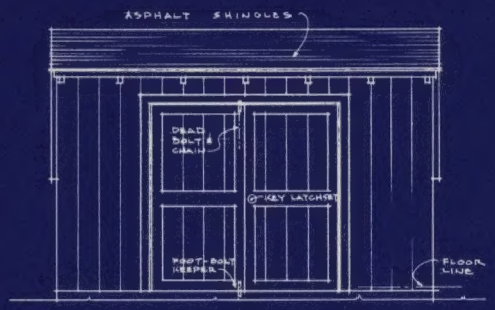
· SIDE ELEVAT. ·



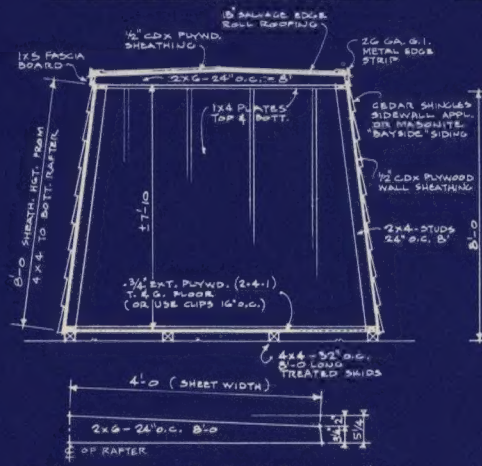
· FRONT ELEVATION ·



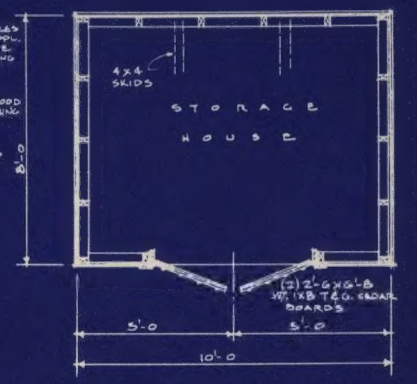
SIDE ELEV.



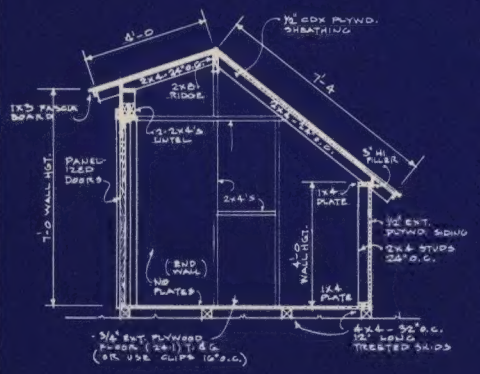
· FRONT ELEVAT ·



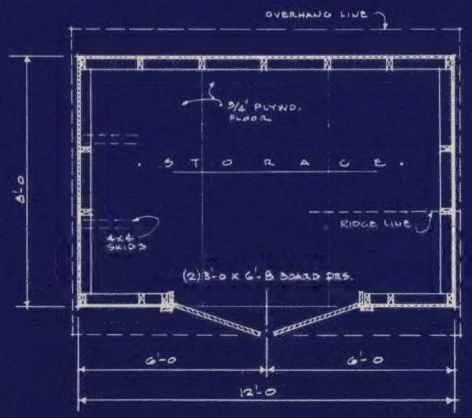
CROSS SECTION ·



· FLOOR PLAN ·



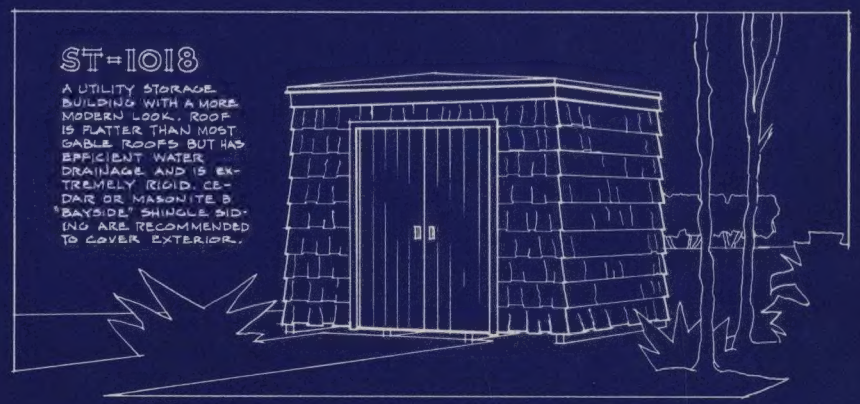
· CROSS SECTION ·

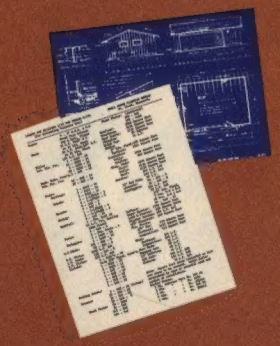


· FLOOR PLAN ·

ST-1018

A UTILITY STORAGE BUILDING WITH A MORE MODERN LOOK. ROOF IS FLATTER THAN MOST GABLE ROOFS BUT HAS EFFICIENT WATER DRAINAGE AND IS EXTREMELY RIGID. CEDAR OR MASONITE B "BAYSIDE" SHINGLE SIDING ARE RECOMMENDED TO COVER EXTERIOR.





Small House Planning Bureau
Box 520
St. Cloud, Minnesota 56301
in Canada: address U.S. office
Printed in U.S.A.

. . . . . time and money saving services

MATERIAL LIST

A material list is available for each of the garage designs for purpose of estimating costs, giving estimated amount and size of dimension lumber, sheathing, siding, shingles, concrete, etc. It also lists doors, windows, frames, trim, etc.

Price each . . . 2.00

GARAGE REPRINTS

Additional reprints of any individual garage design may be purchased in quantity. Reprints will save you money and stimulate more sales when you give out single sheets rather than the more expensive book.

8" x 10½" Reprints, minimum
3 prints of any one design . . . price 1.00
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